

ANT/TIN/01

0050

ANTARCTIC
SUMMER
1970

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West end, Forbes Glacier

0601 - 0602 Spec.

East side of Forbes Glacier

Very well banded granulite
 with approach to gneissic
 texture in places. Main minerals
 garnet. Qtz. feldsp. pyroxene. Mica.
 Darker colored bands Garnet
 pyroxene Mica. Lighter colored
 ones feldsp. Qtz ^{some} ~~quartz~~ ^{photo}
 feldsp. (B's band). Also feldsp. Qtz
 pyroxene pods are embedded
 conformable with the banding
 in the granulite. Some mylonite
 bands cross grain of band & mylonite.

0601 Dr colored streaked rock
 feldsp. Qtz? mica Rock with general or
 feldsp. & conventional banding.

0602 Scharval feldsp. Qtz feldsp.
 Granulite texture Some makes prob. pyroxene
 mica also in large Garnet.

Strike parallel to direction of land
 and about 60° E. Qtz feldsp.
 mica also cross cut
 strike

South Masson Range [Mt Burnett]

(666-667) Specs

Gen South East Arm

General Rock type a saccharoidal
light brown coloured ^{amphibolite} ~~Charnockite~~
with inclusions of darker basic
~~has~~ ^{-granite} pyroxene rich rock and aplite
dykes. Also some pegmatites - coarse
felspar Qtz some garnets - both
conformable and cross cutting
the general banding of the rock.

The main rock is granitic but
has some ^{compositional} banding
most noticeable in quartz & pyroxene.
A cross cutting aplite dyke was seen
but could not be collected.

0606 No specimen collector locality

Ref only to the main
Charnockite rock type.

0607 Spec of sand in chert

Rock type Qtz Pyroxene Felspar Mica
Granulite of dark grey and a
grey brown colour. No banding

WOODBERRY. NTR.

0608-610.

The general rock is a
Pyroxene Garnet Mica Felspar
Gneiss striking approximately
N-S and dipping, 60° (Approx)
to the UNW. The general rock
type is a brown-black colour
and it includes bands of a
light green brown Garnet-Felsp-Qtz
rock which indicate the direction
of dip. Also approximately
concordant are Qtz-felsp pegmatite
pods possibly bands though this
is obscure from the actual outcrop
which are badly frost shattered.

0608 Qtz Mica Garnet ? pyroxene
Gneiss. Colour Dark grey, black
Garnet. Small Gneiss texture
from Mica Alignment

MOUNT WOJNARSKI

Mt Wonnarski - 2nd Feb 1970

At Southern end

pt 0611

Garnet Pyroxene Feldsp



Qtz Migmatite outcrops interbedded and
intermingling with Feldsp^{mic} - Pyroxene Gneiss.
Bedding about 3ft wide dip N 70
Strike. Some veinlets and pockets
of Feldsp. Qtz minerals make the
rock a migmatite and some
bands of this are up to 6" thick
though generally no more than 1/2".
Although generally concordant they
cross cut and crosscut in places.

0612 Near W end of mountain the
rock is largely pinkish granitic
granite with included pods of feldsp
migmatite streaking with the
matrix containing the granite
as indicated

0613-6 Dark coloured Mica - Pyroxene
Migmatitic Gneiss. strike NE at the
NE end of the promontory with
interbedding roughly conformable
with the gneiss foliation lenses
of Q2 Felsic Granitic rock containing
a very few Garnets and having
a 'sacharok' texture pinkish colour.

This continues up the slope
but the strike swings from NE
to E to S to NW at pt 1614
where 3 granitic bands stand
out prominently weaving their
way down the Northern slope
side. A photograph was taken
of a joint wall pit hole
at pt 1614. A white Q2 Mica
Q2 Felsic rock with Garnets
and Mica phenocrysts and
a lot of small Garnets. Crystals
pinkish - black gneiss rock appears
to be intermediate stage
in the granulite process.

It appears to be going on in these rocks.

Tran 0617 looking across to 0613 two pinkish bands sloping to the S.E. can be seen. They are presumably the trace of the granite bands noted at 1612.

Spets 0613-0617 collected specimens later

0618 NNE of Hornet peak

Granite - ? Charnockite - Gneiss or at least foliated Granite lenses and veins generally striking in mass and NW occur in chocolate brown weathering foliated gneiss that show a variety of strike directions in which are probably post-orogenic. The banding in the gneiss can be followed into the top of the foliated granite. Charnockite and hornblende occur to the NW. The question ∞

show lenses of to bands and
pods of granitic material. These
can and can quite definitely
be considered migmatites.

Both the foliated granite
and the gneiss are intruded
by pegmatite with mainly of
Garnet Felds Qtz (a portion of the
Qtz only). The veins are both
conformable and discordant,
and in one place they are
foliated near the line of a
pegmatite vein. Suggests movement
along the vein line. The pegmatite
also contains mica ~~that~~ crystals
up to 2 cm across.

Near the top of the hill
the variety of the gneiss
into which the granite ~~is~~
includes an ore band, gneiss
and thin foliated ~~quartzite~~ ~~gneiss~~
They ~~can~~ have a ~~small~~
~~small~~ ~~white~~ ~~spotted~~ and

Here structures can be seen more clearly. None of these fold structures were observed in situ.

Specimens 0610-0622

At Camp Site

Spec 0623, 0624, 0625

On main ridge of Mt Womarski to the NW of Camp site (i.e. Summit)

0626. White Qtz ~~Felspar~~? Epitaxial
Grt Ep. Jade Felsp Qtz rock near prominent
dyke of ~~Qtz Felsp~~ Garnet Felsp Qtz
rock. 0626 ^{SSB} possibly represents a
contact rock type ~~where~~ or a
variety of the dyke. Actual
outcrop not seen rock collected
from patterned ground.

0627

? Pyroxene

Pinkish coloured Garnet feldsp
Qtz rock collected from near
0626 and again not from solid
outcrop. Another ~~last~~ exotic
rock type as 0626 represents
possible variation in the host
rock for the intrusive dykes.

0628

DK Green Pyroxene feldsp
~~Garnet~~ gneiss is here main
rock mass into which the
white dykes intrude here.

0629. Spec of ~~contact between~~

Pyroxene Garnet Feldsp Gneiss showing
development on intrusion of Garnet
Feldspar rock with large (2m across)
blobs of Garnet aggregation

0630

Similar to 0629 but Garnet
much less common.

0631 Contact between Qtz Felspar
? intrusive dyke into gneiss
Pyroxene Qtz Felsp granulite. Qtz
Felsp rock shows some variation
but contact generally quite
clean.

0632 Black brown Gneiss
Pyroxene ? Scapolite Magnetite
Crist which is main host rock
at this point. Felsp Qtz pods
and bands developed in main rock
~~Rock is~~ and they are
both concordant & cross
cutting. Lineation developed
as well as foliation.

0633 ^{White} Qtz ^{Calcite} Felspar with Dk green
? Dropsive crystals. occurs
as pet like inclusion in the

? intrusive Q12 Felsp Gneiss as
as illustrated



Q12 Felsp Gneiss rock

Pyroxene gneiss / migmatite

0623 Telsp. Qtz Pyroxene Banded
gneiss (migmatite) shows
development of Qtz-Telsp. 'Granitic'
Veinlets and pods which are
conformable with the ~~schist~~ gneissosity
and foliation generally. There
is also a very pronounced
lineation on the foliation planes
and the Granitic developments
are puckerol and folded a
little distorting the gneissic
foliation with them

Mica

0624 Garnet Pyroxene Quartz
Felspar rock which occurs
as continuation and development
of the granitic developments in
the migmatites. On the main
ridge of Wanaishi this rock
occurs as large lenses
up to 50 yds long and 6 ft
thick in places

0625. Granular Pyroxene
Felsp 'Gneiss' that is not
at all well foliated in the
specimen but grades laterally
into better foliated more granitic
rock.

0613 Grey Migmatitic Mica
Pyroxene Felsp Qtz Gneiss
acts as host rock of large
contamable (with the greenish
foliation) Granite pods. There are
minor granitic developments within
the greens and these anastomose
~~to form~~ and/or develop to
give the granitic pods and lenses
which are in this case about 3ft
wide and 20 ft or longer
along the foliation planes.

0614.

A similar rock that appears
to contain mica as only mafic
mineral. Foliation and grainosity
much more pronounced but in
general rock more much
the same as 0613

0615 Specimen from the granitic development in the gneiss near the locality of 0613. The rocks are mainly Qtz-felsp with very minor amounts of Mica and ?pyroxene present.

T/S requires.

0616 Specimen of Qtz from pegmatite dikes that cross cut both the gneisses and the contact granitic development. There is a suggestion of movement along these pegmatite lines as seen from the disturbance of foliation etc. Also see the ^{older} _{contact} near the contact.

0617

Specimen showing Qtz Felsp Pegmatitic dyke cutting through a Garnet Pyroxene (?Diopside) Mica Felsp Qtz rock. Crystal development of green pyroxene and garnets quite good and pegmatite vein about 1 inch wide.

0618. Specimens of brown black
Migmatite Garnet Pyrox Mica
Qtz Felsp gneiss with white-grey
Granitic veins conformable with
the gneissic foliation and banding.
The host rock for the granitic
pods
T/S. Compare to 0613.

0619. A coarser grained bi-
foliated but still gneissic rock
~~similar to~~ ^{to} 0618 Mineralogically,
the rock is Garnet Pyrox Qtz
Felsp Gneiss which shows
a development of Qtz Felsp
pods and lenses that justify
its classification as a migmatite.
T/S. Less Mica apparent
than in 0618 but
otherwise mineralogically similar

0620 Spec of Gneissic-granite
? Granitic gneiss with a Mica
Pyroxene (?) Hbl Felsp - Qtz fine
grained rock. Grain size -

it makes about 1mm but
Qtz and Felspars up to 5mm.
Foliation defined in micas but
only very faint lineation on
the folice surfaces.

0621 Specimen of Qtz Felsp
rock with rare Garnets and
makes that constitute clear
granitic pods

0622 Rock type similar to 0620
mineralogically but foliation with
micas not well developed. However
there are ^{two} well developed cleavage
sets. Rock Pyroxene Qtz Felsp
? Granite ? Charnockite.
T/S.

0616 spec 2 Shows part of
Contact of pegmatite Qz
rock with mica Garnet Qtz feldsp
Gneiss on one side (coarse develop
ment) and with the granitic
like rock at spec 0622 on
the other side which is essentially
Garnet Qtz feldsp ~~Gneiss~~ Granite
(see spec 0622)

MOUNT MARSDEN.

20/2/70

11. Marsden (N. end)

Migmatitic Gneiss are
sub-conformable dymanites
show good blocky and
conformable banding in
the main indication perhaps
of previous bedding (see)

Bed run about 100m approx
to the west (see above)
and the granite matrix
(100m or 12) also contains
granite which have a width
of 100m original granite.

Specs 0634-0640.

WEST END, FORBES GLACIER

West end of Forbes Glacier
0603-5

Specimen of ~~granite~~ ^{granular} O12
Telsp rock with very few mafics
which occurs as thick bands
both concordant & discordant
in this locality and giving a
bimodal nature to the whole terrain
(see photos) A pegmatite band
with diffuse bands & a few veins
wide cuts across the specimen
but does not appear to be a
later date than the ~~pegmatite~~
granite band.

Spec 0608 is of a well banded
bimodal granular rock with
dark colored Pyrox-Telsp bands
mixed with light colored Qtz
Telsp granitic bands which are
both conformable & concordant
& with which many garnets
are associated. Light colored

Bands up to 3cm wide
but more usually about
1cm in this specimen

Spec 0604 represents the country
rock into which the migmatite bands
are being intruded and is a
grey granular Pyroxene Qtz Felsp
rock of medium - fine grain.
In the actual specimen there
is some Qtz felsp Pyroxene mottled
altering

Woodberry Nunatak spec 0609 10.

0609 Grey colored Granular Pyroxene
Qtz Felspar rock with good
jointing but no apparent foliation
0610 Dk grey-black ^{fine} Pyrox. Qtz Felsp
rock coarse grained & slightly foliated

Rock for thin section

Mr. Womarski

0613

0615

0618

0620

Church Mt

0622

0120

0623

06

0630

Mt Marsden

0636

0637

Mt Hinkley 0645

0646

0650

0654

I.R.M.

33/ 0473.4 0475.6 477.8
479.80 482.3.7 484
485.6 489 ?501 508.9.10
511.2.3.4. 515.6.7

(A little room

28/ J. BAIN. 0086.7/ 91/ 93
94. 98 99 100. 102
103. 104. 107. 108. 113. 117. 118
0009.16 0013.15
(Room for 1 specimen)

(27) 0064 65. 81 82 83. 84. 85
88 89 92 106 101
114. 115.11 116.

(E.W.)

(29) 0011.19.20 0018.26
Mt. Leckie 0011.17
Room for H/S 0012.25

30/ 0044. / 45/46/47/48/49/
0050/51/52/53/54/56/59/
60/61/62/63
Full.

31. 0090 / 112 / 023 / 0010.22.23
BAIN SPEC (0020) / BEWSHER MORAINIC
Room.

32 428.9 430.2.41 425.6.7
435.7.9 436 440 434.403
424 520.21 ? 519. FISHER
Room

34 279.10.81 282.3 285.6 288.9.90
 292.3 294.5.6 301.3
 304.6.7 309-11 312.3.4
 315.6.7 243.5.9 240.41
 Full.

35 237. 239.42 267.68 274.5.6
 269.70 271.73 277.78,

Row.

Orange Juice

Full Size Plastic Bags

The

Plastic Bags

Simple Substitution Bar

Bar

Mr. Temple Out-let

North End

Mantle Mule Peck.

20. Jan.

not sure of Future Glaciers



